

Amendments to the Claims:

Please amend claims 58 and 80 as provided below.

Please cancel claims 1-7, 10-54, 57, and 73-79 without prejudice or disclaimer.

The listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

Claims 1-57 (Canceled)

58. (Currently Amended) An adenovirus particle comprising a modified adenovirus fiber, a modification to a fiber shaft protein, wherein the modification is a mutation, insertion or replacement of at least one amino acid at contiguous amino acids corresponding to the amino acid sequence set forth in SEQ ID NO: 49 in a fiber shaft β -repeat corresponding to the last full β repeat, and wherein the fiber further comprises a modification in the AB loop or the CD loop of the fiber knob, wherein the fiber knob modification is selected from the group consisting of K01 and K012, whereby binding of the modified fiber or of a viral particle containing such modified fiber to the Coxsackie-Adenovirus Receptor (CAR) is reduced as compared to the unmodified fiber.
59. (Withdrawn) The adenovirus particle of Claim 58, wherein the capsid further comprises a penton modification.
60. (Withdrawn) The adenovirus particle of Claim 58, wherein the modified fiber includes an N-terminal portion from a fiber of a serotype C Ad virus, wherein the N-terminal portion is sufficient to increase incorporation into the particle compared to in its absence.
61. (Withdrawn) The adenovirus particle of Claim 58, that comprises a modified serotype C genome, wherein the N-terminal portion of the modified fiber comprises at least the N-terminal 15, 16 or 17 amino acids of a serotype C fiber.

- 62. (Withdrawn) The particle of Claim 61 wherein the serotype C virus is an Ad2 or Ad5 virus.
- 63. (Withdrawn) The adenoviral particle of Claim 58 that further comprises a targeting ligand in the capsid.
- 64. (Withdrawn) The adenovirus particle of Claim 58 further, comprising a heterologous nucleic acid in the genome thereof.
- 65. (Withdrawn) The adenovirus particle of Claim 64, wherein the heterologous nucleic acid encodes a therapeutically effective product.
- 66. (Withdrawn) The adenoviral particle of Claim 58 that includes a modification to the capsid whereby binding of the viral particle to HSP is altered compared to a particle that expresses an unmodified capsid.
- 67. (Withdrawn) The adenoviral particle of Claim 66, wherein the capsid modification that alters HSP binding is in the fiber.
- 68. (Withdrawn) An adenoviral particle of Claim 58, comprising a mutation in the α_v integrin-binding region of the capsid, whereby binding to the integrin is eliminated or reduced.

Claims 69-71 (Canceled)

- 72. (Withdrawn) A composition formulated for administration to a subject, comprising the adenovirus particle of Claim 58.

Claims 73-79 (Canceled)

- 80. (Currently Amended) The modified adenovirus fiber of Claim 58, wherein the modification at least one amino acid is replaced ~~comprises replacement of the last full β -~~

~~repeat~~ with a corresponding ~~repeat sequence~~ amino acid from the last full β -repeat from a serotype D adenovirus fiber shaft.

81. (Previously Presented) The modified adenovirus fiber of Claim 80, wherein the serotype D adenovirus is Ad37.
82. (Previously presented) The adenoviral particle of Claim 58, wherein the modification of the last full repeat is the sequence set forth in SEQ ID NO:48.
83. (Previously Presented) The adenoviral particle of Claim 58, wherein the fiber knob modification is K012.
84. (Previously Presented) An adenovirus particle comprising a modified adenovirus fiber, a modification to a fiber shaft protein, wherein the modification is a replacement of the last full β -repeat with a corresponding repeat sequence from a Ad37 serotype D adenovirus fiber shaft set forth in SEQ ID NO:48, and wherein the fiber further comprises a modification in the AB loop or the CD loop of the fiber knob, wherein the fiber knob modification is selected from the group consisting of K01 and K012, whereby binding of the modified fiber or of a viral particle containing such modified fiber to the Coxsackie-Adenovirus Receptor (CAR) is reduced as compared to the unmodified fiber.
85. (Previously Presented) The adenovirus particle of Claim 84, wherein the fiber knob modification is K012.